**Fractions and Decimals**

**A Write the following as fractions and decimals**

*For example, three tenths can be written as* $\frac{3}{10}$ *or 0.3*

|  |  |  |  |
| --- | --- | --- | --- |
| 1. eight tenths | 2. two tenths | 3. twelve hundredths | 4. five tenths |
| 5. sixty-five hundredths | 6. eight hundredths | 7. ninety hundredths | 8. nine hundredths |

**B What does the digit 4 represent in each of these?**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. 1.4 | 2. 34.2 | 3. 5.14 | 4. 43.92 |
| 5. 20.74 | 6. 408.1 | 7. 39.48 | 8. 184.5 |

**C Write the following decimals as fractions or mixed numbers**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. 0.9 | 2. 0.4 | 3. 0.14 | 4. 0.55 |
| 5. 0.03 | 6. 0.8 | 7. 3.25 | 8. 9.06 |

**D Write the following fractions and mixed numbers as decimals**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. $\frac{1}{10}$ | 2. $\frac{7}{10}$ | 3. $\frac{35}{100}$ | 4. $\frac{5}{100}$ |
| 5. $\frac{88}{100}$ | 6. $\frac{49}{100}$ | 7. 1 $\frac{6}{10}$ | 8. $7\frac{1}{100}$ |

**E Copy these and write < , > or = in between to make each statement correct**

*You may wish to use the base-10 blocks to help you*

|  |  |  |  |
| --- | --- | --- | --- |
| 1. 1.4 1.7 | 2. 9.1 8.9 | 3. 3.7 3.07 | 4. 2.3 2.30 |
| 5. 4.45 4.35 | 6. 3.08 3.2 | 7. 6.9 6.90 | 8. 5.15 5.5 |

**F Write each set of decimals in order, starting with the smallest**

*You may wish to use the base-10 blocks to help you*

|  |  |
| --- | --- |
| 1. 0.3 0.03 0.23 0.33 0.32 | 2. 1.18 0.8 1.1 1.81 1.8 |
| 3. 0.56 0.05 0.5 0.65 0.06 | 4. 0.9 0.69 6.09 9.6 0.96 |

**H Round these to the nearest £**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. £6.30 | 2. £7.80 | 3. £2.23 | 4. £13.50 |
| 5. £1.07 | 6. £22.49 | 7. £4.74 | 8. £51.75 |

**I Work out the totals**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. 2.5 + 3.1 | 2. 4.7 + 1.4 | 3. 2.15 + 6. 52 | 4. 4.23 + 5.7 |
| 5. 7.38 + 3.8 | 6. 9.6 + 4.9 + 3.2 | 7. 4.18 + 2 + 3.7 | 8. 1.18 + 4 .9 + 3.27 |

**J Find the missing numbers**

*You may wish to use the base-10 blocks to help you or use a number line*

|  |  |  |  |
| --- | --- | --- | --- |
| 1. 0.8 + ? = 1 | 2. 1.5 + ? = 2 | 3. 1.18 + ? = 2 | 4. 0.2 + ? = 1 |
| 5. 0.5 + ? = 1.2 | 6. 0.89 + ? = 1 | 7. 0.67 + ? = 1.3 | 8. 0.9 + ? = 1.08 |